

Serial No. 10/024,849
Amdt. AF dated June 19, 2009
Reply to O.A. of January 7, 2009

PATENT
Docket No. 28944/40018

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) Method for allocating radio resources for the establishment of an outgoing call originating from a mobile terminal of a first system for radiocommunications with mobiles having a given radio interface and a mutual help channel, via a base station of a second system for radiocommunications with mobiles, said second system being distinct from said first system, and said first and second systems comprising respective terminals and base stations and having respective radio interface which are mutually incompatible,

wherein a given pattern is transmitted periodically by the mobile terminal on the mutual help channel with a first periodicity; and

wherein the base station carries out the steps of:

a) periodically monitoring said mutual help channel of the first system with a control logical channel having timeslots with a second periodicity which is not proportional to said first periodicity, while taking into account the characteristics of the radio interface of the first system;
and

b) in case of detection, by the base station, of ~~[[a]]~~ the given pattern transmitted by the mobile terminal on said mutual help channel, allocating a traffic channel emulating the radio interface of the first system, for communication with the mobile terminal.

2. (Currently Amended) Method according to Claim 1, ~~wherein, the given pattern is transmitted periodically by the mobile terminal on the mutual help channel with a first periodicity, and~~ wherein step a) comprises:

- monitoring said mutual help channel during given periodic timeslots;
- measuring the power level at the frequency of said mutual help channel during said given periodic timeslots;

Serial No. 10/024,849
Amdt. AF dated June 19, 2009
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PATENT
Docket No. 28944/40018

- if this power level is greater than a given threshold, assigning ~~[[a]]~~ the control logical channel dedicated to searching for the given pattern on the ~~said~~ mutual help channel, ~~the timeslots of said control logical channel having a second periodicity which is not proportional to said first periodicity; and~~

- monitoring said mutual help channel during the timeslots of said control logical channel, while taking into account the characteristics of the radio interface of the first system.

3. (Original) Method according to Claim 2, wherein said given periodic timeslots consist of at least some of the timeslots of a broadcasting logical channel set up on a downlink control physical channel specific to the base station.

4. (Previously Presented) Method according to Claim 2 wherein the mobile terminals of the second system are silent during said given periodic timeslots.

5. (Original) Method according to Claim 1, wherein the given pattern is a synchronization sequence inserted periodically into the frame of a traffic physical channel of the first system.

6. (Original) Method according to Claim 1, wherein in step b), the allocation of the traffic channel is automatic.

7. (Original) Method according to Claims 1, wherein in step b), the allocation of the traffic channel is controlled by an operator.

8. (Currently Amended) Base station, comprising means for allocating radio resources for the establishment of an outgoing call originating from a mobile terminal of a first system for radiocommunications with mobiles having a given radio interface and a mutual help channel, via a base station of a second system for radiocommunications with mobiles said second system being distinct from said first system, and said first and second systems comprising respective

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PATENT
Docket No. 28944/40018

terminals and base stations and having respective radio interface which are mutually incompatible, wherein a given pattern is transmitted periodically by the mobile terminal on the mutual help channel with a first periodicity,

wherein said means for allocating comprise:

a) means for periodically monitoring said mutual help channel of the first system with a control logical channel having timeslots with a second periodicity which is not proportional to said first periodicity, while taking into account the characteristics of the radio interface of the first system; and

b) means for allocating a traffic channel emulating the radio interface of the first system, for communication with the mobile terminal in case of detection of a given pattern transmitted by the mobile terminal on said mutual help channel.

9. (Currently Amended) Base station according to Claim 8, ~~wherein, the given pattern being transmitted periodically by the mobile terminal on the mutual help channel with a first periodicity,~~ the means for monitoring comprise:

- means for monitoring said mutual help channel during given periodic timeslots;
- means for measuring the power level at the frequency of said mutual help channel during said given periodic timeslots;
- means for assigning ~~[[a]]~~ the control logical channel dedicated to searching for the given pattern on the said mutual help channel, if the power level is greater than a given threshold, ~~wherein said control logical channel has timeslots having a second periodicity which is not proportional to said first periodicity;~~ and
- means for monitoring said mutual help channel during the timeslots of said control logical channel, while taking into account the characteristics of the radio interface of the first system.

10. (Currently Amended) System for radiocommunications with mobiles having a first given radio interface and comprising at least one base station, wherein the base station has means for allocating radio resources for the establishment of an outgoing call originating from a mobile

Serial No. 10/024,849
Amdt. AF dated June 19, 2009
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PATENT
Docket No. 28944/40018

terminal of another system for radiocommunications with mobiles having a second given radio interface which is incompatible with said first given radio interface, wherein a given pattern is transmitted periodically by the mobile terminal on the mutual help channel with a first periodicity, and having a mutual help channel, said systems comprising respective terminals and base stations,

and wherein the means for allocating comprise:

a) means for periodically monitoring said mutual help channel of the other system with a control logical channel having timeslots with a second periodicity which is not proportional to said first periodicity, while taking into account the characteristics of the radio interface of the first system; and

b) means for allocating a traffic channel emulating the radio interface of the other system, for communication with the mobile terminal in case of detection of a given pattern transmitted by the mobile terminal on said mutual help channel.

11. (Currently Amended) System according to Claim 10, ~~wherein, the given pattern being transmitted periodically by the mobile terminal on the mutual help channel with a first periodicity~~, the means for monitoring comprise:

- means for monitoring said mutual help channel during given periodic timeslots;
- means for measuring the power level at the frequency of said mutual help channel during said given periodic timeslots;
- means for assigning ~~[[a]]~~ the control logical channel dedicated to searching for the given pattern on the said mutual help channel, if the power level is greater than a given threshold, ~~wherein said control logical channel has timeslots having a second periodicity which is not proportional to said first periodicity~~; and
- means for monitoring said mutual help channel during the timeslots of said control logical channel, while taking into account the characteristics of the radio interface of the system.